

**Listing of the Claims:**

The following is a complete listing of all the claims in the application, with an indication of the status of each:

1        1 (Original). A wavelength division multiplexing transmission system in  
2        which a plurality of remote apparatuses are connected to a station  
3        apparatus and communication is performed among said remote apparatuses  
4        and the station apparatus, wherein each of said remote apparatuses  
5        comprises wavelength determining means that determines an available  
6        wavelength on the basis of an optical signal received from said station  
7        apparatus.

1        2 (Currently Amended). The wavelength division multiplexing  
2        transmission system according to claim 1, wherein said wavelength  
3        determining means determines the wavelength of an unreceived optical  
4        signal among the wavelength classification used with said transmission  
5        system as the available wavelength and sets the wavelength as a  
6        transmission and reception wavelength to be used in said remote apparatus.

1        3 (Original). The wavelength division multiplexing transmission system  
2        according to claim 1, wherein said wavelength determining means  
3        determines the wavelength of a received optical signal as the available  
4        wavelength and sets the wavelength as a transmission and reception  
5        wavelength to be used in said remote apparatus.

1        4 (Original). The wavelength division multiplexing transmission system  
2        according to claim 1, wherein said station apparatus comprises optical  
3        output control means that determines a wavelength to be used, on the basis  
4        of an optical signal received from said remote apparatus.

1        5 (Currently Amended). The wavelength division multiplexing  
2        transmission system according to claim 1, wherein said station apparatus  
3        prevents an optical signal having the same wavelength as an unreceived  
4        wavelength among the wavelength classification used with said  
5        transmission system from being outputted and outputting and optical signal  
6        having the same wavelength as a received wavelength.

1        6 (Currently Amended). The wavelength division multiplexing  
2        transmission system according to claim 1, wherein said wavelength  
3        determining means comprises:  
4                wavelength filtering means that sequentially separates optical  
5        signals from an optical signal including a plurality of wavelengths;  
6                optical receiving means that outputs a reception status signal  
7        indicating whether or not said separated optical signal is being received;  
8                wavelength control means that determines an unused wavelength  
9        among the wavelength classification used with said transmission system on  
10       the basis of said reception status signal, sets said unused wavelength as a  
11       transmission and reception signal, and outputs a wavelength control signal  
12       for setting said wavelength; and  
13               optical transmitting means whose output wavelength is adjusted to  
14       be said unused wavelength in response to said wavelength control signal.

1        7 (Original). The wavelength division multiplexing transmission system  
2        according to claim 1, wherein said station apparatus comprises:  
3                wavelength demultiplexing means that demultiplexes the  
4        wavelength of a received optical signal;  
5                optical receiving means that receives an optical signal  
6        demultiplexed by said wavelength demultiplexing means;  
7                optical output control means that determines, as a transmission  
8        wavelength, an optical signal having the same wavelength as that of an  
9        optical signal received by said optical receiving means;  
10       optical transmitting means that transmits an optical signal having

11 the transmission wavelength determined by said optical output control  
12 means; and  
13 wavelength multiplexing means that multiplexes the wavelength of  
14 the optical signal transmitted by said optical transmitting means.

1 8 (Original). The wavelength division multiplexing transmission system  
2 according to claim 1, wherein each of said remote apparatuses and said  
3 station apparatus are connected with each other through optical branching  
4 and coupling means.

1 9 (Original). The wavelength division multiplexing transmission system  
2 according to claim 8, wherein said optical branching and coupling means is  
3 an optical coupler.

1 10 (Original). The wavelength division multiplexing transmission system  
2 according to claim 8, wherein said optical branching and coupling means is  
3 wavelength demultiplexing and multiplexing means.

1 11 (Original). The wavelength division multiplexing transmission system  
2 according to claim 1, wherein said plurality of remote apparatuses and said  
3 station apparatus are connected in a star topology.

1 12 (Original). The wavelength division multiplexing transmission system  
2 according to claim 1, wherein said plurality of remote apparatuses and said  
3 station apparatus are connected in a tree topology.

1 13 (Original). A remote apparatus in a wavelength division multiplexing  
2 transmission system in which a plurality of remote apparatuses are  
3 connected to a station apparatus and communication is performed among  
4 said remote apparatuses and the station apparatus, said remote apparatus  
5 comprising wavelength determining means that determines wavelength  
6 determining means that determines an available wavelength on the basis of

7 an optical signal received from said station apparatus.

1 14 (Currently Amended). The remote apparatus according to claim 13,  
2 wherein said wavelength determining means determines the wavelength of  
3 an unreceived optical signal among the wavelength classification used with  
4 said transmission system as the available wavelength and sets the  
5 wavelength as a transmission and reception wavelength.

1 15 (Original). The remote apparatus according to claim 13, wherein said  
2 wavelength determining means determines the wavelength of a received  
3 optical signal as the available wavelength and sets the wavelength as a  
4 transmission and reception wavelength.

1 16 (Currently Amended). The remote apparatus according to claim 13,  
2 wherein said wavelength determining means comprises:  
3 wavelength separating means that sequentially separates optical  
4 signals from an optical signal including a plurality of wavelengths;  
5 optical receiving means that outputs a reception status signal  
6 indicating whether or not said separated optical signal is being received;  
7 wavelength control means that determines an unused wavelength  
8 among the wavelength classification used with said transmission system on  
9 the basis of said reception status signal, sets said unused wavelength as a  
10 transmission and reception signal, and outputs a wavelength control signal  
11 for setting said wavelength; and  
12 optical transmitting means whose output wavelength is adjusted to  
13 be said unused wavelength in response to said wavelength control signal.

1 17 (Original). A station apparatus in a wavelength division multiplexing  
2 transmission system in which a plurality of remote apparatuses are  
3 connected to the station apparatus and communication is performed among  
4 said remote apparatuses and the station apparatus, said station apparatus  
5 comprising optical output control means that determines a wavelength to

6 be used, on the basis of an optical signal received from said remote  
7 apparatus.

1 18 (Currently Amended). The station apparatus according to claim 17,  
2 wherein said station apparatus prevents an optical signal having the same  
3 wavelength as an unreceived wavelength among the wavelength  
4 classification used with said transmission system from being outputted and  
5 outputting and optical signal having the same wavelength as a received  
6 wavelength.

1 19 (Original). The station apparatus according to claim 17, comprising:  
2 wavelength demultiplexing means that demultiplexes the  
3 wavelength of a received optical signal;  
4 optical receiving means that receives an optical signal  
5 demultiplexed by said wavelength demultiplexing means;  
6 optical output control means that determines, as a transmission  
7 wavelength, an optical signal having the same wavelength as that of an  
8 optical signal received by said optical receiving means;  
9 optical transmitting means that transmits an optical signal having  
10 the transmission wavelength determined by said optical output control  
11 means; and  
12 wavelength multiplexing means that multiplexes the wavelength of  
13 the optical signal transmitted by said optical transmitting means.

1 20 (Original). A method for adding a remote apparatus to a wavelength  
2 division multiplexing transmission system in which a plurality of remote  
3 apparatuses are connected to the station apparatus and communication is  
4 performed among said remote apparatuses and the station apparatus,  
5 wherein an available wavelength is determined on the basis of an optical  
6 signal received at a remote apparatus to be added and the wavelength is set  
7 as a transmission and reception wavelength to be used in said remote  
8 apparatus to be added.